

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****In re U.S. Patent Application of****SUGAHARA ET AL.****Application Number: 10/522,241****Filed: October 5, 2005**

**For: A SPIN TRANSISTOR BASED ON THE SPIN-FILTER
EFFECT AND A NONVOLATILE MEMORY USING
SPIN TRANSISTORS (AS AMENDED)**

ATTORNEY DOCKET NO. HIRA.0178**Art Unit 2815**

**Examiner
Valentine, Jami M.**

**Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

LETTER

Sir:

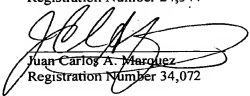
The below-identified communications are submitted in the above-captioned application or proceeding:

- | | |
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| <input type="checkbox"/> Priority Document | <input checked="" type="checkbox"/> Information Disclosure Statement |
| <input type="checkbox"/> Request for Priority | w/1449 and references |
| <input type="checkbox"/> Response to Notice of | <input type="checkbox"/> Petition under 37 C.F.R. 1.47(a) |
| Non-Compliant Amendment | <input checked="" type="checkbox"/> Check \$180.00 |

- ☐ The Commissioner is hereby authorized to charge payment of any fees associated with this communication, including fees under 37 C.F.R. § 1.16 and 1.17 or credit any overpayment to **Deposit Account Number 08-1480**. A duplicate copy of this sheet is attached.

Respectfully submitted,

Stanley P. Fisher
Registration Number 24,344


Juan Carlos A. Marquez
Registration Number 34,072

REED SMITH LLP
3110 Fairview Park Dr., Suite 1400
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(703) 641-4200
June 4, 2008

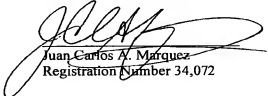
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SPIN TRANSISTORS (AS AMENDED)****ATTORNEY DOCKET NO. HIRA.0178****Commissioner of Patents****P.O. Box 1450****Alexandria, VA 22313-1450****Art Unit 2815****Examiner****Valentine, Jami M.****LETTER****Sir:**

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In re U.S. Patent Application of

SUGAHARA et al.

Application Number: 10/522,241

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**For: A SPIN TRANSISTOR BASED ON THE SPIN-FILTER
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SPIN TRANSISTORS (AS AMENDED)**

Attorney Docket No. HIRA.0178

)
)
) **Unit 2815**
)
) **Examiner**
) **Valentine, Jami M.**

01/05/2008 WABDELK1 06200001 10522241

02 FC:1806

180.00 DP

**Honorable Assistant Commissioner
for Patents
Washington, D.C. 20231**

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO-1449. Any other documents or information submitted for consideration by the Examiner are listed in this paper. A copy of each U.S. and foreign patent, or each publication or portion thereof listed or herein identified, is submitted herewith.

CERTIFICATION

This Information Disclosure Statement is submitted after the mailing date of a Notice of Allowance sent in this application but before payment of the issue fee. The certification required under 37 C.F.R. § 1.97(e) is submitted separately or below.

06/25/2008 HIRA.0178 06000001 10522241
02 FC:1806 180.00 DP

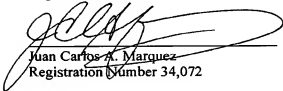
It is hereby certified that each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. The fee required under 37 C.F.R. 1.97(c) is submitted herewith.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Please charge any additional fees or credit any overpayments in connection with this paper to Deposit Account No. 08-1480.

Respectfully submitted,

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June 4, 2008



Receipt date: 06/04/2008

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Page 1 of 1

Form PTO 1449 U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER HIRA.0178	SERIAL NUMBER 10/522,241
	APPLICANT SUGAHARA et al.	
	FILING DATE October 5, 2005	GROUP 2815

U.S. Patent Documents

Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,877,511	3/2/1999	Tanamoto et al.			9/29/1997
	6,069,820	5/30/2000	Inomata et al.			2/10/1999
	5,652,445	7/29/1997	Johnson			5/6/1996
	6,381,171 B1	4/30/2002	Inomata et al.			5/17/2000
	6,297,987 B1	10/2/2001	Johnson et al.			9/30/1999

Foreign Patent Documents

Examiner Initial	DOCUMENT NUMBER	FILING DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
	WO 01/99137 A2	6/19/2001	PCT			X	
	WO 01/099137 A3	6/19/2001	PCT			X	

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

	Supplementary European Search Report for Appl. No. 03771333.6 - 2203, PCT/JP0309438, dated May 8, 2008.
EXAMINER	/Jami Valentine/
DATE CONSIDERED	06/16/2008

PTO1449